

Serial No.: 10/563,432

PD030073

Remarks

In view of the following discussion, the applicants submit that the claims now pending in the application are not anticipated under the provisions of 35 U. S. C. § 102. Thus, the applicants believe that all of these claims are in allowable form.

OBJECTIONS

A. Title

The Examiner objects to the title of the invention. In particular the Examiner indicates the title of the invention is not descriptive. Applicants have amended the title of the invention to be descriptive.

In view of this amendment to the title, the basis for the Examiner's objection thereto has been removed. Therefore, it is respectfully requested that the Examiner's objection to the title be withdrawn.

REJECTIONS

A. 35 U. S. C. § 102

1. Claims 1, 3-5 and 7-9 are not anticipated by ST Microelectronics UC 3844 data sheet

Claims 1, 3-5 and 7-9 stand rejected under 35 U. S. C. § 102(b) as being anticipated by ST Microelectronic UC 3844 data sheet (ST Microelectronics UC 3488 data sheet published October 1998). The applicants submit that these claims are not anticipated by this reference.

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Amended claim 1 is directed to a switched mode power supply including a transformer with a primary winding and at least one secondary winding, a switching transistor arranged in series with the primary winding and a control circuit coupled with a driver stage to a control input of the switching transistor for controlling an output voltage. The control circuit comprises an oscillator having a terminal, to which a first capacitor is coupled for determining the oscillation frequency of the oscillator. Said terminal is further coupled via a resistor to a rectified voltage provided by a first rectifier means coupled to the secondary winding for providing an additional charge current for the capacitor during operation, for increasing the oscillation frequency of the switched mode power supply during operation with regard to the start-up phase.

The invention recited in claim 1 has the advantage that a soft start is provided because the switched mode power supply starts up at a relatively low oscillation frequency, which is increased by an additional charge current provided via the resistor by the secondary winding of the transformer so that essential components, for example the switching transistor, are not overloaded during start-up. The lower switching frequency provides further a complete demagnetization of the transformer in each case during start up, as described on page 5, line 33 to page 6, line 10. The invention is also advantageous in case the switched mode power supply starts up in the event of a short circuit.

The cited data sheet for the UC2842 controller IC family, describes a control circuit with an oscillator, which oscillation frequency is determined by a capacitor coupled to a terminal of the oscillator. The capacitor is charged via a resistor by a reference voltage provided by the control circuit. The integrated circuit has a start up threshold for under-voltage lockout, to allow the power supply to establish a supply voltage after switching on of the power supply so that the control circuit starts with full operation, when the start up threshold is exceeded.

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The diode arranged between terminals 7 and 8 inside the control circuit as shown in the block diagram page 1 of the UC2842 data sheet is reversely biased and therefore does not provide an additional charge current for said capacitor for increasing the oscillation frequency of the oscillator during operation. Therefore, no resistor is shown or suggested by the data sheet, which couples the terminal of the oscillator to a rectified voltage provided by a secondary winding and a first rectifier means for increasing the oscillation frequency of the switched mode power supply during operation, with regard to the start up phase. Thus, claim 1 is patentable over the cited data sheet for the UC2842 controller IC family.

Claims 3-5 and 7-9 depend directly, or indirectly, from claim 1. For the same reasons as stated above for claim 1, claims 3-5 and 7-9 are also patentable over cited data sheet for the UC2842 controller IC family.

CONCLUSION

Thus, the applicants submit that none of the claims presently in the application are anticipated under the provisions of 35 U. S. C. § 102. Consequently, the applicants believe that all of the claims are presently in condition for allowance. Accordingly, both reconsideration of this application and its swift passage to issue are earnestly solicited.

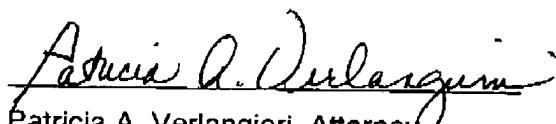
If, however, the Examiner believes that there are any unresolved issues requiring adverse final action in any of the claims now pending in the application,

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it is requested that the Examiner telephone Ms. Patricia A. Verlangieri, at (609) 734-6867, so that appropriate arrangements can be made for resolving such issues as expeditiously as possible.

Respectfully submitted,



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January 19, 2009